

In the Claims:

1 1. [currently amended] A method of mobile device control comprising:
2 moving a surrogate under wireless control by a user; and
3 during the moving, detecting unsuitable degradation of wireless
4 communications of the wireless control; and
5 in response to the detecting and while the surrogate is still receiving the
6 wireless communications, autonomously moving the surrogate to provide suitable
7 wireless communications of the regain wireless control when the wireless control is
8 lost.

1 2. [original] The method as claimed in claim 1 additionally comprising:
2 autonomously moving the surrogate along a previously determined route.

1 3. [currently amended] The method as claimed in claim 1 wherein:
2 autonomously moving the surrogate to regain wireless control occurs after
3 passage of a period of time following the detecting of the degradation.

1 4. [original] The method as claimed in claim 1 wherein:
2 autonomously moving the surrogate includes measuring distance and
3 avoiding collisions by the surrogate.

1 5. [original] The method as claimed in claim 1 wherein:
2 moving the surrogate under wireless control includes logging forward motion
3 using at least one of dead reckoning, odometry, directional measurement,
4 differential wheel rotation, and a combination thereof.

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1 6. [original] The method as claimed in claim 1 wherein:
2 autonomously moving the surrogate uses logged information of forward
3 movement using at least one of dead reckoning, odometry, directional
4 measurement, differential wheel rotation, and a combination thereof; and
5 autonomously moving the surrogate uses waypoints back along a forward
6 movement path for backtracking movement.

1 7. [currently amended] A method of mobile telepresence comprising:
2 moving a surrogate under real-time wireless control by a user; and
3 autonomously moving the surrogate to an area with adequate wireless
4 coverage to regain wireless control when the wireless control is lost for a period of
5 time; and
6 while the surrogate is autonomously moving, activating a human perceptible
7 indicator which is perceptible to humans in the presence of the surrogate.

1 8. [original] The method as claimed in claim 7 additionally comprising:
2 autonomously moving the surrogate along at least one of a previously
3 determined route, a distance, a destination, a direction, or a combination thereof.

1 9. [original] The method as claimed in claim 7 wherein:
2 losing wireless control includes degradation of the control to a threshold
3 level;
4 autonomously moving the surrogate to regain wireless control occurs after a
5 period of time.

1 10. [original] The method as claimed in claim 7 wherein:
2 autonomously moving the surrogate includes;
3 backtracking while measuring distance and avoiding collisions by the
4 surrogate;
5 stopping the surrogate for an obstacle; and
6 resuming backtracking after removal of the obstacle.

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1 11. [original] The method as claimed in claim 7 wherein:
2 moving the surrogate under wireless control includes logging forward motion
3 using at least one of dead reckoning, odometry, directional measurement,
4 differential wheel rotation, and a combination thereof.

1 12. [original] The method as claimed in claim 7 wherein:
2 autonomously moving the surrogate to backtrack uses logged information of
3 forward movement using at least one of dead reckoning, odometry, directional
4 measurement, differential wheel rotation, and a combination thereof;
5 autonomously moving the surrogate to backtrack uses a slower speed than
6 forward speed; and
7 autonomously moving the surrogate uses waypoints back along a forward
8 movement path for backtracking movement considering the slower speed of
9 backtracking.

1 13. [currently amended] A mobile device control system comprising:
2 a surrogate movable under wireless control by a user; and
3 a computer/transceiver system on the surrogate for moving the surrogate to
4 regain wireless control independently of the wireless control after passage of a non-
5 zero amount of time following loss of the when the wireless control is lost.

1 14. [original] The system as claimed in claim 13 wherein:
2 the computer/transceiver system for autonomously moving the surrogate
3 along a previously determined route.

1 15. [currently amended] The system as claimed in claim 13 wherein:
2 the computer/transceiver system for autonomously moving the surrogate to
3 regain wireless control occurs after the surrogate remains stationary for the non-
4 zero amount a period of time.

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1 16. [original] The system as claimed in claim 13 wherein:
2 the computer/transceiver system for autonomously moving the surrogate
3 includes measuring distance and avoiding collisions by the surrogate.

1 17. [original] The system as claimed in claim 13 wherein:
2 the computer/transceiver system includes logging forward motion using at
3 least one of dead reckoning, odometry, directional measurement, differential wheel
4 rotation, and a combination thereof.

1 18. [original] The system as claimed in claim 13 wherein:
2 the computer/transceiver system uses logged information of forward
3 movement using at least one of dead reckoning, odometry, directional
4 measurement, differential wheel rotation, and a combination thereof; and
5 the computer/transceiver system calculates waypoints back along a forward
6 movement path for backtracking movement.

1 19. [currently amended] A mobile telepresence system comprising:
2 a surrogate movable under real-time wireless control by a user; and
3 a computer/transceiver system for determining when the wireless control is
4 lost and responsive to the determining, autonomously moving the surrogate to an
5 area not currently receiving adequate coverage of the wireless control, but in which
6 the surrogate previously experienced with adequate wireless coverage of the
7 wireless control, to regain adequate coverage of the wireless control when the
8 wireless control is lost for a period of time.

1 20. [original] The system as claimed in claim 19 additionally comprising:
2 the computer/transceiver system for autonomously moving the surrogate
3 along at least one of a previously determined route, a distance, a destination, a
4 direction, or a combination thereof.

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1 21. [original] The system as claimed in claim 19 wherein:
2 the computer/transceiver system for determining degradation of the wireless
3 control to a threshold level;
4 the computer/transceiver system for autonomously moving the surrogate to
5 regain wireless control occurs after a period of time.

1 22. [original] The system as claimed in claim 19 wherein:
2 the computer/transceiver system for autonomously moving the surrogate
3 includes;
4 backtracking means for measuring distance and avoiding collisions by the
5 surrogate during backtracking;
6 stopping means for stopping the surrogate for an obstacle; and
7 means for resuming backtracking after removal of the obstacle.

1 23. [original] The system as claimed in claim 19 wherein:
2 the computer/transceiver system includes means for logging forward motion
3 using at least one of dead reckoning, odometry, directional measurement,
4 differential wheel rotation, and a combination thereof.

1 24. [original] The system as claimed in claim 19 wherein:
2 the computer/transceiver system uses logged information of forward
3 movement using at least one of dead reckoning, odometry, directional
4 measurement, differential wheel rotation, and a combination thereof for
5 backtracking;
6 the computer/transceiver system provides a slower speed than forward
7 speed for backtracking by the surrogate; and
8 the computer/transceiver system uses waypoints back along a forward
9 movement path for backtracking movement considering the slower speed of
10 backtracking.

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1 25. [new] The method as claimed in claim 1 wherein:
2 the detecting comprises comparing a performance parameter associated with
3 the wireless communications with a threshold.

1 26. [new] The method as claimed in claim 25 wherein:
2 the performance parameter comprises a bandwidth and the threshold
3 comprises an acceptable bandwidth.

1 27. [new] The method as claimed in claim 26 further comprising:
2 prior to the detecting, wirelessly transmitting a video signal at the acceptable
3 bandwidth from the surrogate to the user.

1 28. [new] The method as claimed in claim 10 further comprising:
2 prior to the resuming of the backtracking, sensing removal of the obstacle;
3 and
4 wherein the resuming is responsive to the sensing.

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